

### Abstract

- 5 The invention relates to aluminum pigments which are at least partially coated with lubricants, wherein said aluminum pigment have
- a) a water coverage between 40,000 and 130,000 cm<sup>2</sup>/g,
  - b) a mean thickness h of less than 100 to 30 nm, as calculated from the water coverage as well as the h<sub>50</sub> value determined from the cumulative
  - 10 breakthrough curve of a scanning electron microscope thickness count,
  - c) as determined by a scanning electron microscope thickness count, a relative width of the distribution of thicknesses Δh between 70 % and 140%, which is calculated on the basis of the corresponding cumulative breakthrough curve of the relative frequencies according to the formula  $\Delta h = 100 \times \frac{h_{90} - h_{10}}{h_{50}}$  , ,
  - 15 d) an aspect ratio d<sub>50</sub>/h of more than 200,
  - e) a roughness value of from 0.30 to 0.9, calculated from the specific surface area, as determined by the BET test method, and the water coverage according to the following formula BET value/2 x water coverage.
- 20 The invention also relates to a process for the manufacture of said aluminum pigments and to the use thereof.